

Course Objectives:

Introduction Learning Defined
Why, Who & What to Train
Exploring the Adult Learning Process

Developing Training Content

Presentation Skills

Conclusion

Learning?





The cognitive process of acquiring skill or knowledge

Learning is the acquisition and development of memories and behaviors, including skills, knowledge, understanding, values, and wisdom. It is the product of experience and the goal of education.

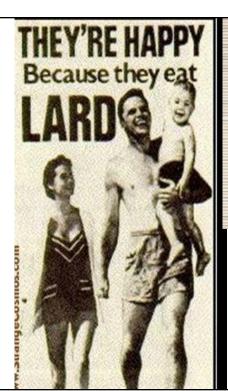
The action of the verb to learn; Accumulated knowledge

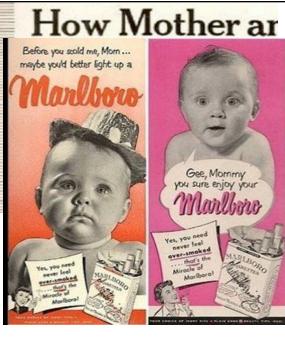
The process by which weights and biases are adjusted to achieve some desired network behavior.

The process of acquiring knowledge, attitudes, or skills from study, instruction, or experience. Source: Miller &Findlay 1996,

Education program whereby students may complete all or part of an educational program in a geographical location apart from the institution

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Miscommunication

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Why Do We Train?

Good Business Practice
integrates into business plan
4 to 6 dollar return on investment
ethical

Legal Requirement
OSHA Law
Other related liabilities



Who Do We Train?

Targeted Training
JHA, JSA, HAZOP, FMEA, Fault Tree
New Employee, Young Employee

Blanket Training



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What to Train?

Job Hazard Analysis
See Handout
Tabletop Exercise
Injury Statistics
OSHA Required Training
Benchmark - "Standards of Care"



Job Hazard Analysis

Op	Operation:				
Date:		Supervisor:			
Participants:					

Step/Hazard	Probability Rating	Severity Rating	Risk Rating	Required Additional Controls	Who	When	Residual Concerns/Goals



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ACTIVE LEARNING

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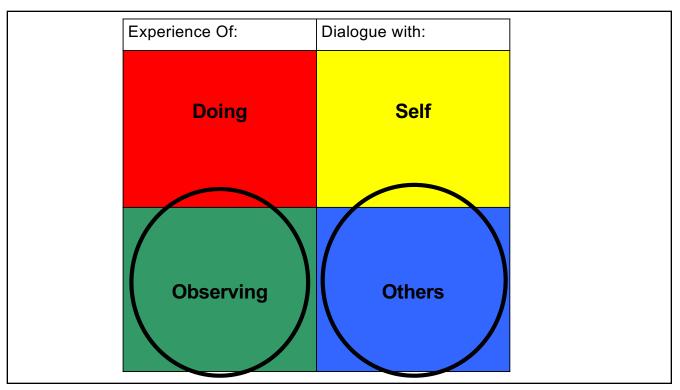
Many college teachers today want to move past passive learning to active learning, to find better ways of engaging students in the learning process. But many teachers feel a need for help in imagining what to do, in or out of class, that would constitute a meaningful set of active learning activities.

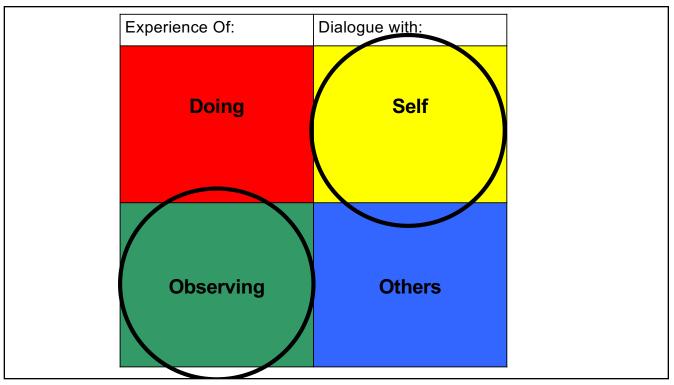
The model below offers a way of conceptualizing the learning process in a way that may assist teachers in identifying meaningful forms of active learning.

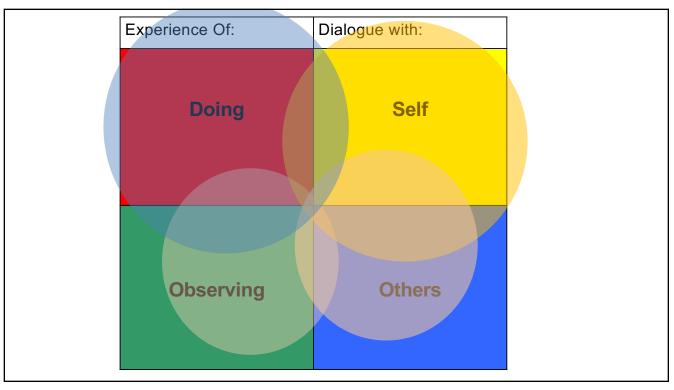
A Model of Active Learning







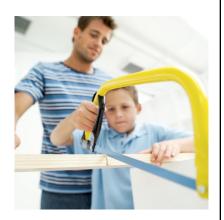


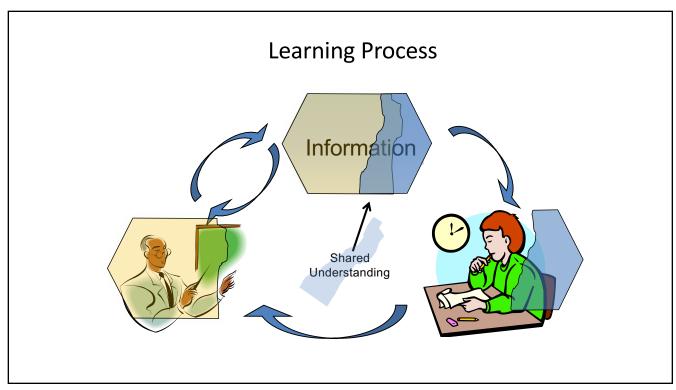


Learning Process

Gaining Attention
Informing Learner of the Objective
Stimulating Recall of Prior Learning
Presenting the Stimulus
Providing Learning Guidance
Eliciting Performance
Providing Feedback
Assessing Performance

Enhancing Retention and Transfer





STOP !!!!!!

Talk to your neighbor

Adult Learners:



Adult Attention Span?

Maximum Attention Span?

People do not listen !!!

How do we transfer information?

5 senses - input information
integration into "schema"



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Training Adults

What's in it for me? How can I use this?

Selective Perception

Active Listening 20%
Reminiscing 40%
Looking Ahead 20%
Other Thoughts 20%



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Recall

Telling Alone

Showing Alone

Showing & Telling

Delivery of Information & Percent Recall				
After 3 Hours	After 3 Days			
70 %	10 %			
72 %	35 %			
85 %	65 %			

[- Cornwell Carlson, The Kansas City Times as cited by Paul R. Timm]

Content:



Reflect Course Objectives
Be Correct
Be Useful (handouts, reference)
Concise & User Friendly
Most courses are not advanced topics.

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How to Train?

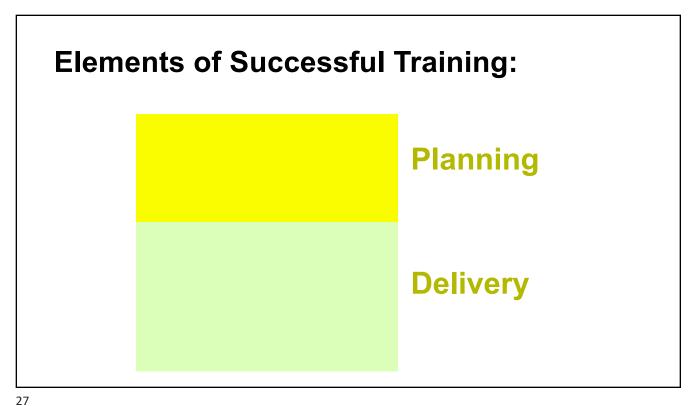
Jean Piaget - "Information must fit"
cultural barriers to learning
Appeal to the learning process
adult attention span
cultural need for high impact information
Does not have to be complicated
Presentation Skills











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Follow-up Proper Content Prepared Presenter Planning Planning Planning Planning Delivery

Safety Training

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Techniques

Speak clearly & loud enough to be heard Speak slowly Avoid distracting sayings/habits Introduction Outline

PowerPoint

When to use?

Do not write out every single word you intend to speak throughout the class. This is not effective for those you teach.

Appropriate graphics

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Presentation Skills:



Physical Appearance

Dress

Body Posture

Verbal Cues (volume)

Position to Audience

Hand Gestures

Response to ?????s

Great Teacher = Great Listener

Visual, Verbal, Written, Action

TOO MUCH - VISUAL
Transitions for change
Introduction
Apologetic

Elements of Successful Training:

Body movement
Physical appearance
Stature/Position
Room
Handouts
Video/Audio
Audience



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Stretch Break



Why Your Class Isn't Listening

Literally can't hear you Don't understand No "why" Misunderstood hazard Too much joking

Why Your Class Isn't Listening

Questions & concerns are ignored Message doesn't apply
No test of comprehension
Too much talking
Roadblocks



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Techniques

Change up every 20 min Emphasize principles Get participation Facilitate discussion

Techniques

Pause

Review info

Talk over topic after

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Ideas

Write thoughts before meeting with group

Small groups

Have class take notes

Observe actions

Hands on activities



Using Adults

Knowledge share
Problem solving activities
Encourage participation
Relate info to job

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Using Adults

Stay on time
Positive environment
Respect differences



Story of a Bucket

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Ideas

Spot the Hazard

Crossword

Music

Hangman

Mnemonics

Object lessons

Smells

Training Games

Who's line is it anyway – role play
Clue – who done it?
Family Feud
Musical Hot Potato
Hollywood Squares/Tic Tac Toe
Competition – questions for each team
Brainstorm

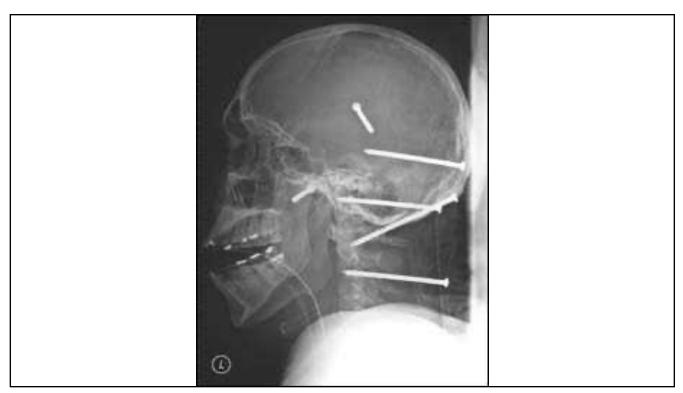
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Evaluation

Continuous improvement for training
Self - Evaluation (video tape)
Participant Evaluation
Testing & Follow-up
Student Demonstration - "competency"
Third Party Evaluation
Benchmarking

Training Exercise

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Conclusion

Learning Defined
Why, Who & What to Train
Exploring the Adult Learning
Process

Developing Training Content Presentation Skills

